

Email: akayal@kfupm.edu.sa Contact: +966-504805737



Dr. Aymen KayalAssociate Professor of Operations and Technology Management

Interdisciplinary Research Center for Renewable Energy and Power Systems (IRC-REPS)

King Fahd University of Petroleum & Minerals, Saudi Arabia

Executive Summary:

Seasoned professional with leadership experience in education, government, R&D, and industrial organizations.

- Deputy Director General for SAUDI ORGANIZATION FOR Saudi Authority for Industrial Estates & Technology Zones (MODON).
- Chairman Board of Directors, Saudi Society for Technology Development & Transfer.
- Manager, Research & Innovation Support Office. THE RESEARCH INSTITUTE (RI).

Education:

- Doctorate of Science in Engineering Management (Specialization in Technology Management), School of Engineering, George Washington University, Washington DC, January 1997.
- Master of Industrial Engineering, College of Engineering, Lamar University, Beaumont TX, 1992.
- B.S. Industrial Engineering, College of Engineering, Lamar University, Beaumont TX., 1990.

Distinguished Projects

- "Climate Change and Energy Dynamics in the Middle East: Modeling and Simulation-Based Solutions". Book by Hassan Qudrat-Ullah and Aymen Kayal. Springer, 2019.
- "Effect and Role of Techno-poles on Sustainable Economic Development" Riyadh

I was the project leader and main author for this study that was funded by the Riyadh Chamber of Commerce & Industry. The study used technology and competitiveness indicators from IMD and Georgia-Tech to compare the economic development, industrialization, and competitiveness of ten of the most innovative countries around the world. The study also investigated the role that techno-poles (technology parks and high-tech industrial parks) played in the development economic growth of these countries. The results of the study were presented (in Arabic) in the Riyadh Economic Forum 2005.

- "A Study of the Saudi Arabian Labor Market" Riyadh

I was the Project Leader and main author for this Contract Research that was funded by the Riyadh Chamber of Commerce & Industry and conducted by KFUPM-RI. The study results were presented (in Arabic) in the Riyadh Economic Forum 2003.

- "Analyses of Liquid Crystal Film Patents of Nippon Oil Company" Janan

I conducted a patent analyses study on "Liquid Crystal Film" technologies during a consultation job I performed for Nippon Oil Company in Japan during the summer of 1999.

- "Evaluation of Technology Transfer for NTTC" USA.

I collaborated on a research project for the National Technology Transfer Center (NTTC) with two other graduate students from George Washington University during the Fall-1994 semester. The researchers interviewed over 300 scientists from the Ballistic Missile Defense Organization. The team quantified the benefits that BMDO scientists received from the NTTC's technology transfer mechanism in assisting them to spin-off promising government-owned technologies that they had developed.

Research Summary

Number of Published Papers: 15

Citations: 258H-Index: 5

Number of Patents : 0

Book Chapters: 1

> Article Reviewed (Elsevier, Springer, MDPI): 20

Award and Recognitions

- Member of working group in the Ministry of Planning for developing the National Strategy for Knowledge Based Society in KSA 2012-2013.
- Member of one of the committees that formulated the National Science & Technology Policy of Saudi Arabia (a project entrusted to KACST), Riyadh, 2004.
- ➤ Member of a steering committee for the Industrial Strategy of Saudi Arabia, Riyadh 2006.
- Member of Al-Aghar Group Think Tank group (www.al-aghar.com) headed by Prince Faisal bin Abdullah Al-Saud, Minister of Education (at the time), which was developing a strategy for the Knowledge Based Economy in KSA, 2007-2009.

Skills and Expertise

- Technology & Innovation Management (R&D management, Technology Transfer, Competitive Intelligence, National Innovation Systems).
- Industrialization strategies and Policies.
- Manufacturing Competitiveness.
- Operations and Process Analysis.
- Supply Chain Management.